ABSTRACT

- 1 A vacuum pumping system comprises a first gas supply for supplying a first gas,
- such as xenon, to a vacuum chamber. A pump receives the gas output from the
- 3 chamber. A second gas supply supplies a purge gas, such as nitrogen or helium,
- 4 for pumping with the first gas. A gas separator receives the pumped gases
- 5 exhausted by the pump, and recovers the first gas and the purge gas from the
- 6 stream. The recovered first gas is recirculated through the vacuum chamber, and
- 7 the recovered second gas is recirculated through at least the pump.